



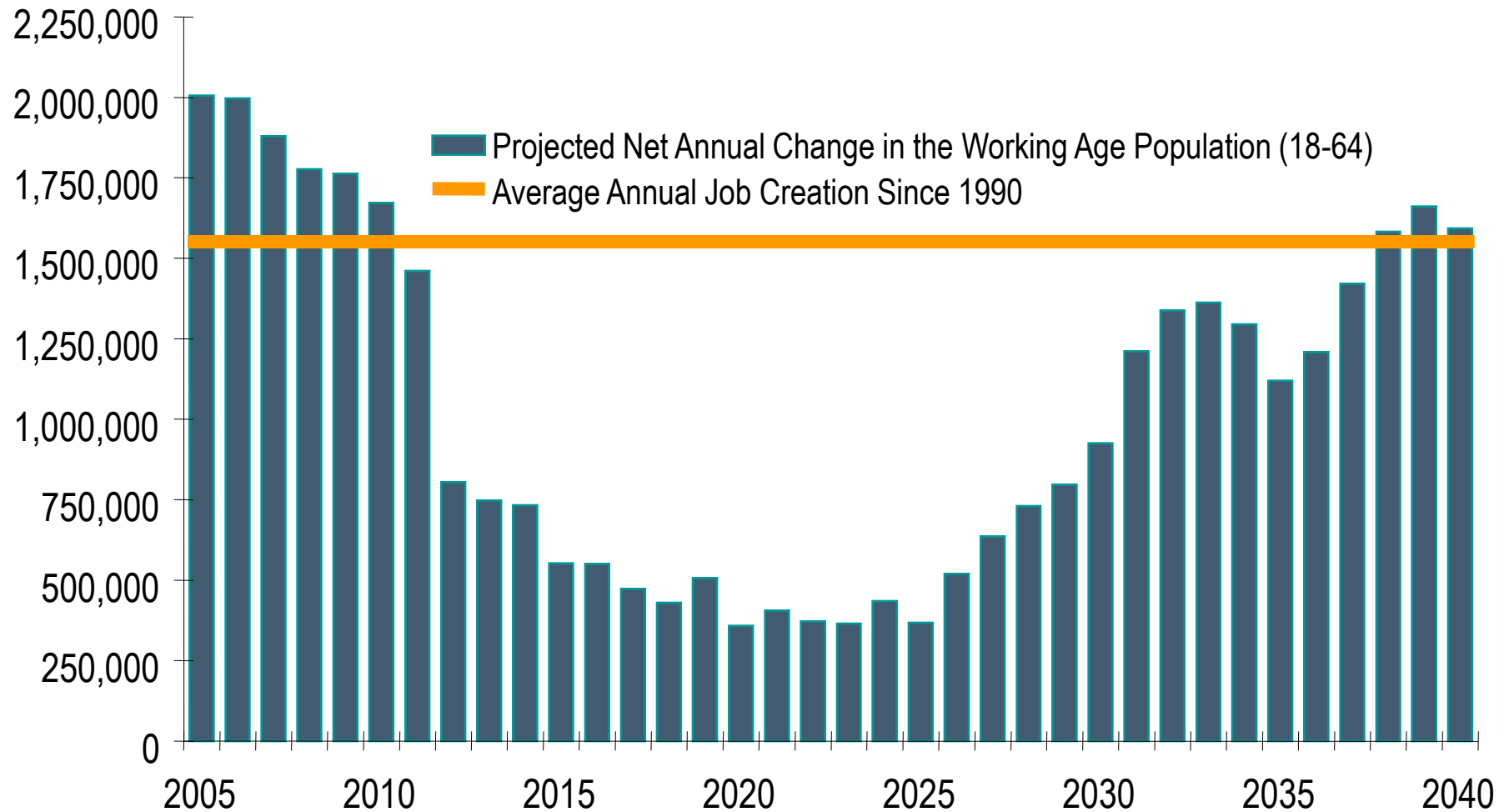
# Education Workforce Committee

## Loudoun Business Education Collaborative

Economic Development Commission

September 18, 2009

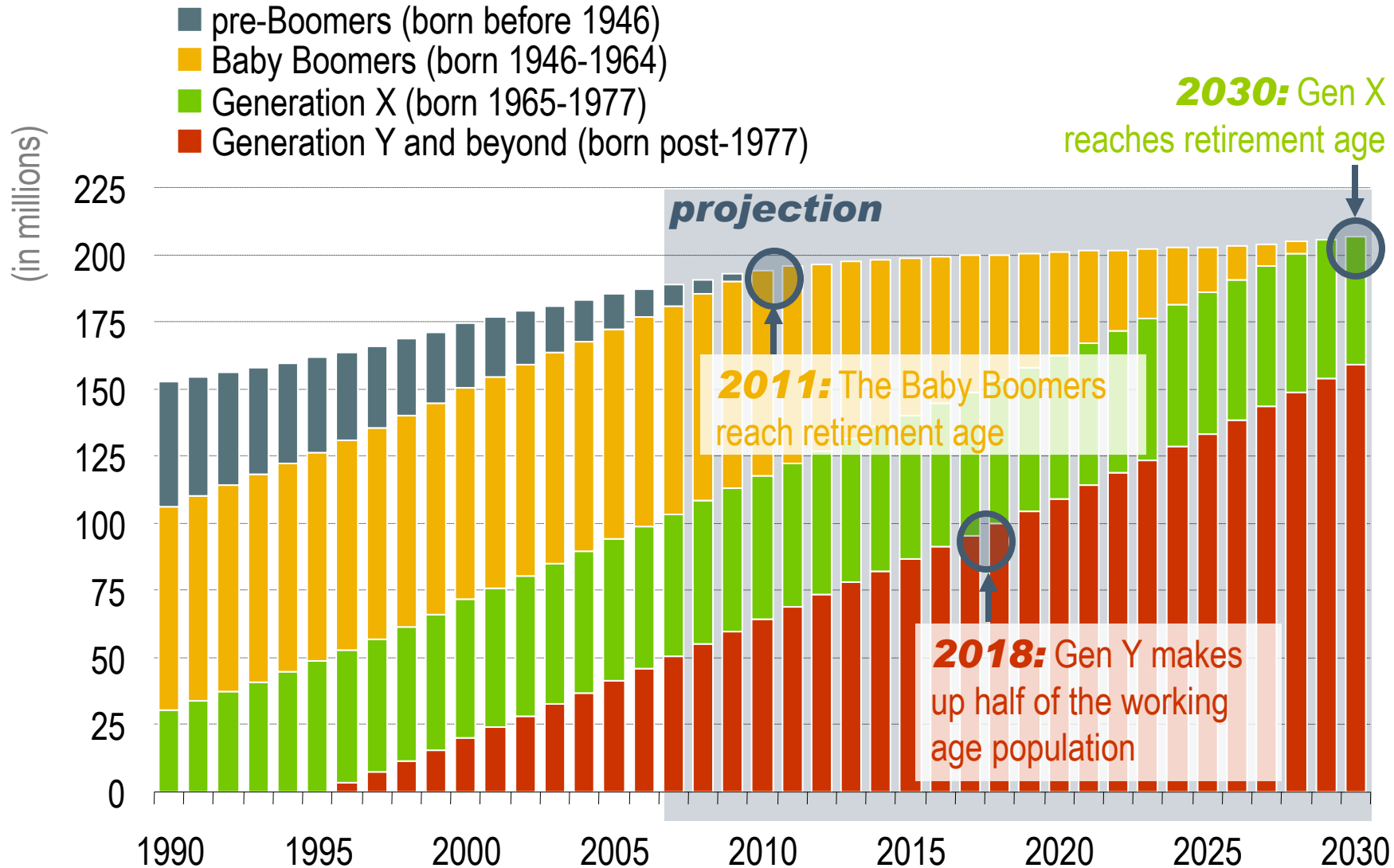
# ***US Approaches a Labor Crisis***



SOURCES: TIP Strategies; U.S. Census Bureau; U.S. Bureau of Economic Analysis

# US Working Age Population by Generation

population age 18-64





## The Challenge and the Opportunity

The combination of economic, demographic, social and technological changes have made growing, attracting and retaining a skilled workforce ***the number one economic and community development issue*** in a global world.

*Dr. Shari Garmise, June 2008*



# Loudoun Business Education Collaborative

## *a brief history*

- June 2008 First Meeting
- September 2008 Engaged Facilitator
- December 2008 Identified Themes
- February 2009 Work Groups & Projects
- April 2009 Project Frameworks
- July 2009 Pre-Pilot of Teachers in Industry Project



# Internet Portal

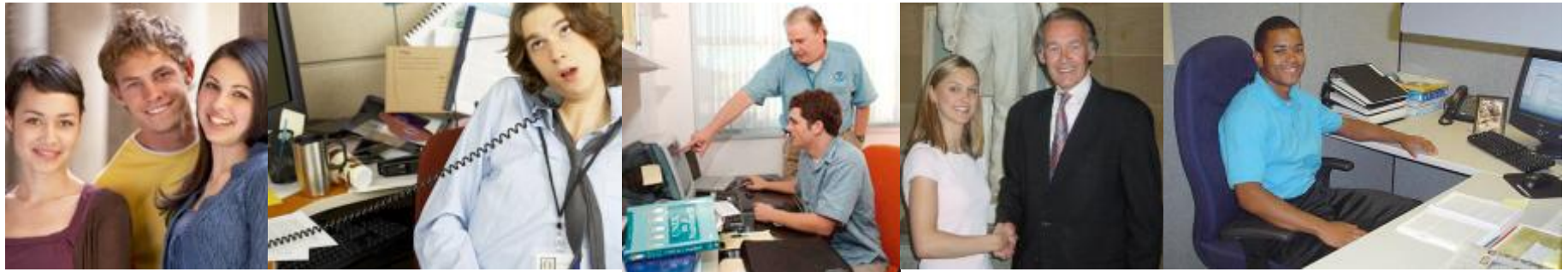
TEAM: Ara Bagdasarian, Shirley Bazdar, Joe Paciulli, Jerry Coughter, with donations from Suite 100 and Patty Corvert designs

OBJECTIVE: To build a technical ecosystem via a web portal to connect business and education. To **bridge** the workforce of the **future** with employers.

POTENTIAL OUTCOME: **Employers** can “try before buy” and fill current and future workforce need **Students** can gain context and experience and may even land a job

MODEL: [www.Greatergrads.com](http://www.Greatergrads.com) a project of the Greater Oklahoma City Chamber of Commerce

# Bridging tomorrows workforce with employers.





# FUTUREBRIDGE

Loudoun's Workforce of Tomorrow Begins Here

## Guiding their future

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## > Welcome to our web site



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## > Become Involved



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## > Current Postings



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# Science Technology Engineering & Math “STEM” Integration

**TEAM:** Bob Steere, Matt Kramer, Cheryl Marin, John Wood, Susan Mitchell, Joan Ziemba, Odette Scovel

**OBJECTIVE:** To enhance the awareness of STEM programs and events throughout Loudoun County and the region.

**POTENTIAL OUTCOME:** Creation of a partnership among local media, County Government, Chamber of Commerce, LCPS and local universities to market the ubiquity of STEM programming to students and parents around Loudoun and the region.



# Enhancing Communication Between Businesses and Education

TEAM: Paula Harper, Scott Hamberger, Kitty Saylor, Dennis Hazel, Pam White, Bryan Ramos, Sharon Ackerman, Janet Schiavone

OBJECTIVE: To create an industry-education partnership where educators – and ultimately students – can gain the knowledge of what basic skills, competencies and STEM applications are required by regional industries.

POTENTIAL OUTCOME: Allows industry to contribute to a long term impact on education. Allows educators to better understand how innovations in industry effect their role in preparing students.

MODEL: Mississippi State University Center for Science Math and Technology directed by Dr. Sandra Harpole

<http://csmt.msstate.edu/IEP>



# Dulles International Airport





# REHAU North-America Leesburg VA & Cullman AL







# TELOS





# Prototype Productions





# Fortessa

## Sterling VA and China







# Inova Loudoun Hospital







# Lesson Learned by our Teachers

- Team Approach
- Critical Thinking/Problem Solving
- Oral and Written Communication
- Professionalism
- Technology Skills
- Innovation (applied creativity)
- Leadership Skills



# Experiential Learning

## Developing Future Leaders

TEAM: Tag Greason, Mary Porter, Ned Waterhouse, Randy Kelley

OBJECTIVE: Create a *Speakers Bureau* that could help students and teachers learn about local businesses and how their skills and knowledge apply to jobs/careers in their own back yard. Participating businesses would work with the teachers to tie presentations to curriculum so the students can participate in real world applications.

POTENTIAL OUTCOME: The program, which would be accessible county-wide, would create a living network among industry and K-12.

LAUNCH: Plan to utilize industry partners and teachers from our Teacher in Industry Program as test group.



# WHERE DO WE GO FROM HERE?

- Continue with pilot-project
- Develop long-term structure and operation of the Loudoun Business Education Collaborative
- Develop long-term structure and operation of the projects
- Identify and secure funding
- Continue to expand networks and opportunities